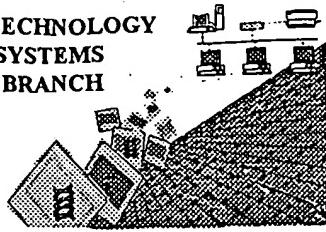


BIOTECHNOLOGY
SYSTEMS
BRANCH



RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/509,420
Source: PCT/US
Date Processed by STIC: 10/5/04

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 4.2 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<http://www.uspto.gov/ebc/efs/downloads/documents.htm>), EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box-1450, Alexandria, VA 22313-1450
3. Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 06/05/04): U.S. Patent and Trademark Office, 220 20th Street S., Customer Window, Mail Stop Sequence, Crystal Plaza Two, Lobby, Room 1B03, Arlington, VA 22202

Revised 05/17/04

Raw Sequence Listing Error Summary

ERROR DETECTED

SUGGESTED CORRECTION

SERIAL NUMBER: 10/509,420

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

- 1 Wrapped Nucleic
Wrapped Aminos The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."
- 2 Invalid Line Length The rules require that a line not exceed 72 characters in length. This includes white spaces.
- 3 Misaligned Amino
Numbering The numbering under each 5th amino acid is misaligned. Do not use tab codes between numbers; use space characters; instead.
- 4 Non-ASCII The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.
- 5 Variable Length Sequence(s) _____ contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.
- 6 PatentIn 2.0
"bug" A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) _____. Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.
- 7 Skipped Sequences
(OLD RULES) Sequence(s) _____ missing. If intentional, please insert the following lines for each skipped sequence:
(2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
(i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)
(xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
This sequence is intentionally skipped

Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.
- 8 Skipped Sequences
(NEW RULES) Sequence(s) _____ missing. If intentional, please insert the following lines for each skipped sequence.
<210> sequence id number
<400> sequence id number
000
- 9 Use of n's or Xaa's
(NEW RULES) Use of n's and/or Xaa's have been detected in the Sequence Listing.
Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.
In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.
- 10 Invalid <213>
Response Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence
- 11 Use of <220> Sequence(s) _____ missing the <220> "Feature" and associated numeric identifiers and responses.
Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section.
(See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)
- 12 PatentIn 2.0
"bug" Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.
- 13 Misuse of n/Xaa "n" can only represent a single nucleotide; "Xaa" can only represent a single amino acid



PCT

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/509,420

DATE: 10/05/2004
TIME: 11:12:11

Input Set : A:\PTO.FG.txt
Output Set: N:\CRF4\10052004\J509420.raw

3 <110> APPLICANT: Japan as Represented by President of The University of Tsukuba
5 <120> TITLE OF INVENTION: A New Root-knot Nematodes Resistance Gene and Its Use
7 <130> FILE REFERENCE: PH-1611-PCT
C--> 9 <140> CURRENT APPLICATION NUMBER: US/10/509,420
C--> 10 <141> CURRENT FILING DATE: 2004-09-24
12 <150> PRIOR APPLICATION NUMBER: JP 2002-89622
13 <151> PRIOR FILING DATE: 2002-03-27
15 <160> NUMBER OF SEQ ID NOS: 8
17 <170> SOFTWARE: PatentIn Ver. 2.1

*see item 4 on Error
summary sheet*

*Does Not Comply
Corrected Diskette Needed*

ERRORED SEQUENCES

19 <210> SEQ ID NO: 1
20 <211> LENGTH: 2613
21 <212> TYPE: DNA
22 <213> ORGANISM: Solanum tuberosum
24 <400> SEQUENCE: 1
25 atggctttag ctgcttattac ttgtctttag agaaccatac aacaatctat tcaacttact 60
E--> 26 ggatgttaatt tgcaatcatt ctatggaaag tttgaatctt tgagagctn tttggagaaa 120
27 cacacgggca atcttgatgc attgaaaagc ttggaaagctg aaatcataga acttgtatgc 180
28 actacagaag atattttggc cttggaaatca agaaatgtta aaaatccaat ttcaagaata 240
29 atagctttt ggaaacttca ttctctcttg aaacaagcag taggacgcat tgattccacg 300
30 ctgaacaagt ggatggaaat gcagaacatg tacacaaaaa gaaaaagatga agaagcacat 360
31 aacttggatc ttgcttagtac tgcatcaatg tctcaacatg ttgtggagcc tcagatatg 420
32 atggttggac atgaaaatga actcgagatg atcatgcagg atcagcttgc tagaggagca 480
33 agtgaacttg aagttgtctc cattgttaggt atggggggca tcggtaagac aacttggct 540
34 gacaaaattt ataatgatcc attcataatg tcacacttgc acattcgatc aaaagctact 600
35 gtttcacaag agtattgcgc gaaaaatgtta tgcctaagtc ttcttcttc tataagtgg 660
36 aagagcaatg agcatcaaga ttaggggcaat ctagctgatc gactgcaaaa aagtctaaaa 720
37 gggaggaggt atttagtagt cattgtatgc atatgaccg aacgagctg ggatgatatg 780
38 aaactatgtt tcccagattt taactgtgga agcagaatac tgctgacaac tcggaaatatg 840
39 gaagtagcta agtatgctag ctcaggtaag cctcctaaga atcaaattgcg actcttgaat 900
40 attgatgaaa gttggaaatg ttgttgcattt actaccatgtt agagtcttgc taaaaaaactg tttctccct 960
41 gaatttgaac aacttggaa acaaattgtt cttaaatgcg ggggattacc tttagctatt 1020
42 atcggttattt ctggaggatct gtctaatatt ggtgagtcatt ttgtatgtt gacaagtgtt 1080
43 gcagagaatg taagttcattt ggttaagtaca gatcacaatg tacaatgtt gagagtgtt 1140
44 gcgtttagtt atcatcaattt accacatcac ttgagagctg gttttctata ttttgcata 1200
45 ttcccgaggat atacagtgtt ttgttgcattt aaacttgcattt aattatggac agcagagggt 1260
46 ttttgcata cagaaatgtt gaaaaatgtt gaagaatgtt cagaaaaatgtt tgtaaaatgtt 1320
47 cttatagata gaaattttgtt ttgttgcattt agggtgatgtt gttttgtatgg aaaaataaaaa 1380
E--> 48 gcttgcggaa tgcattatgtt gatccgtgaa ctctgcttgc gagaagctg aaaaatgtt 1440
49 ttgttgcattt ttataatgtt taatcaaaaat ccatgttgcattt aatccatgtt ttatccaca 1500

pp1-4

*see p. 3
for error
explanation*

see p. 2 for more errors

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/509,420

DATE: 10/05/2004
TIME: 11:12:11

Input Set : A:\PTO.FG.txt
Output Set: N:\CRF4\10052004\J509420.raw

50 aaggagttc ggataagtat ccaatccaaa cttgctgcc atcagttgtc tatggttgt 1560
 51 aataacgatt cctattctgt ttcgttttt actgaagatc cctcaagctc aagaatggtg 1620
 52 cagggcttga agcattcaa ggtactaaga gtacttatct tgcttcgggt gcattgcattg 1680
 53 tttcccaatt gcatagttga actatccac ttgagatatac taggttttagg tggttactcg 1740
 54 tccactaatg attggatata ttgtttcca tcctcaatag ctgccttga gtattgcaa 1800
 55 acttaatac ttaagttcc aacatctctc ggatgaaatg tcactagact ttccagatta 1860
 56 ccatcgagta tttcaagat gtcgcaattt aggcatctat ctttggactg gaattacttg 1920
 57 aatggacatg aatctagcga gagatcaagt tgggtttga gaaatcttga gtgtctgtct 1980
 58 ggatggaatc ctatcttg tacttcttg gtttttagac tacttccgaa tgtaaagaag 2040
 59 ttgcaaataat gtggtatcca agaagactac ataagaaagg acaaggtctt tgatgatctt 2100
 60 tgctgcttaa atcagcttac agaattgaaa tttaagatata gaaagatgt tggaagagca 2160
 61 atatatgata catctttgt tcttcctccct ctaggtgctt ttccgaagaa ccttaagaag 2220
 62 ttagcttttca caggtactcg ttgcattgg aaggatttgg agattcttg taagttgcct 2280
 63 aaatcgagg ccctcaaaact agatatgt gcctgcattt gtactgatgg ggaagtaggt 2340
 64 gaggaagggt ttccacactt gaagttcttg cgattgaagc atttgtactt gcataactgg 2400
 65 agagcttagta gtgatcattt tccacgactt gaacgactag tcattaaccg tcgttggaga 2460
E--> 66 atgtattcga tccccacagga tttgttagac ataaccacac ttcaagctgat tcatataann 2520
 67 gactctgcaa aatctgttgg gaactccgcc aagaagattc agcagggaaat tgaagacagc 2580
 68 tatgaaagtt ctgtttaggt ctgtatcagt tag 2613
 95 <210> SEQ ID NO: 4
 96 <211> LENGTH: 17
 97 <212> TYPE: DNA
 98 <213> ORGANISM: Artificial Sequence
 100 <220> FEATURE:
 101 <223> OTHER INFORMATION: Description of Artificial Sequence:primer
 103 <400> SEQUENCE: 4
E--> 104 gttttcccaag tcacgac 17
 143 <210> SEQ ID NO: 8
 144 <211> LENGTH: 24
 145 <212> TYPE: DNA
 146 <213> ORGANISM: Artificial Sequence
 148 <220> FEATURE:
 149 <223> OTHER INFORMATION: Description of Artificial Sequence:primer
 151 <400> SEQUENCE: 8
 152 ctaactgata cagacctcaa caga 24
E--> 157 1/6 *delete*

VARIABLE LOCATION SUMMARY
PATENT APPLICATION: US/10/509,420

DATE: 10/05/2004
TIME: 11:12:12

Input Set : A:\PTO.FG.txt
Output Set: N:\CRF4\10052004\J509420.raw

Use of n's or Xaa's (NEW RULES):

Use of n's and/or Xaa's have been detected in the Sequence Listing.

Use of <220> to <223> is MANDATORY if n's or Xaa's are present.

in <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.

Seq#:1; N Pos. 110,1435,2519,2520

10/509,420

4

SEQUENCE LISTING

<110> Japan as Represented by President of The University of Tsukuba

<120> A New Root-knot Nematodes Resistance Gene and Its Use

<130> PH-1611-PCT

<1507> <140> PCT/JP02/12392

<1517> <141> 2002-11-27

These are prev data, not current.

VERIFICATION SUMMARY
PATENT APPLICATION: US/10/509,420

DATE: 10/05/2004
TIME: 11:12:12

Input Set : A:\PTO.FG.txt
Output Set: N:\CRF4\10052004\J509420.raw

L:9 M:270 C: Current Application Number differs, Replaced Current Application Number
L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:26 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:1
M:340 Repeated in SeqNo=1
L:104 M:254 E: No. of Bases conflict, LENGTH:Input:18 Counted:17 SEQ:4
L:157 M:254 E: No. of Bases conflict, LENGTH:Input:6 Counted:25 SEQ:8
L:157 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:2
L:157 M:252 E: No. of Seq. differs, <211> LENGTH:Input:24 Found:25 SEQ:8